

RhinoCrete™ HF is trowel applied product. RhinoCrete™ HF is typically applied at thicknesses ranging from 1/4" to 3/8". RhinoCrete™ HF can also be used to slope floor to drain by adding additional sand.

SURFACE PREPARATION

Surface must be clean, sound, dry and free of all oil, grease, detergent film, sealers and/or curing compounds. A CSP 4-6 surface profile is appropriate for most applications. Anchor grooves, at least 1/2" wide and 1/2" deep, must be cut at a 6" perimeter along all walls, edges, pillars, doors, drainage channels, grid drains, and penetrative joints. All moving joints must pass through the coating and must be sealed. Anchor grooves must be cut on both sides of such joints.

MIXING

Do not mix this product in direct sunlight or when temperatures exceed 85°F. Exposure to high temperatures will greatly reduce the working time of this product. Make ready all necessary tools, mix and measure containers, etc. **DO NOT MIX UNTIL READY FOR IMMEDIATE USE.** Ensure all components are between 50°F and 85°F. RhinoCrete™ HF is supplied in premeasured units consisting of one pail of resin, one pail of hardener, one bag of aggregate (powder) and a desired color pack. Pour resin into power mixer pail, scraping bottom and sides to assure all pigment is transferred. Color pack should be added and blended into Part A before adding Part B. The resin and hardener should be added to a forced circulation pail mixer and pre-blended for approximately 30 seconds. Gradually add aggregate until homogenous mix is attained. (Approximately one minute) Move the paddle back and forth scraping the bottom and sides of the pail while mixing. **THOROUGH BLENDING IS MANDATORY.** A properly mixed batch trowels easier and has a uniform surface appearance. Incomplete mixing will cause an inconsistent finish and / or possible blistering. Clean mixing paddle and pail regularly to avoid mixing fresh material with older batches. This may result in irregular curing or blisters. Apply material immediately after mixing. Place the entire batch of mortar on the floor. Spread at a desired thickness with a screed box.

PRIMING

RhinoCrete™ HF is designed as a self-priming system. If a situation occurs where priming may be necessary, please consult your Rhino Flooring Technical Sales Person.

NOTES

*Keep moisture from contacting RhinoCrete™ HF during storage, installation and curing. Water may alter surface appearance. Mix only what can be applied in <20 minutes. Never attempt to re-temper the mortar after it begins to set. **DO NOT STORE RhinoCrete™ HF IN DIRECT SUNLIGHT.** Use a thermometer that can be pushed into middle of aggregate bag if high temperatures is a concern. Aggregate that is +90°F when used can cause Co2 blistering.*

FINISHING

Finish with a steel trowel. Apply sufficient pressure on the trowel to level RhinoCrete™ HF as much as possible. Ensure material is at the desired thickness prior to finishing the floor. Use sweeping motions to ensure the floor is fully closed up, level and finished. Do not use alcohol or solvent. Failure to follow these instructions may also leave variations in surface color. Aluminum Oxide or sand may be broadcast into the wet resin for enhanced slip resistance. Rolling after broadcast will embed aggregate in resin reducing added slip resistance.

CURING

Allow a minimum of eight hours cure time at 70°F for a tack free finish and able to receive epoxy or urethane top coats. Cure times will lengthen in lower temperatures. Additional time must be allowed for heavy loads.

EDGE DETAILS

Wherever a free edge will occur, including doorways, wall perimeter, expansion joints, columns and equipment pads, keyways must be cut in. At free edges, such as doorways, drains and transition to other floor systems, a 1/2" wide by a 1/2" deep keyway is recommended.

SLOPING

RhinoCrete™ HF may be installed on pre-sloped floors pitched up to 1/2" per foot. RhinoCrete™ HF may be used on smaller areas to complete pitching and finishing in one install by adding 1/4" or 3/8" pea gravel to prevent slumping of the product. Pea gravel may also be added in applications where RhinoCrete™ HF needs to be installed at greater than 1/2".

CRACK REPAIR / PATCHING

Up to 1/2" x 1/2" can be overlaid at the time of install with RhinoCrete™ HF. Rhino Flooring offers many suitable options for crack repair and patching. Please consult your Rhino Flooring Technical Sales person or technical department for recommendations for your project.

UV STABILITY

Exposure to ultraviolet light will change the color of RhinoCrete™ HF. Sunlight and metal halide lighting will cause ambering without affecting performance of product. Rhino Flooring offers a variety of suitable UV stable topcoats.

MOISTURE CONCERNS

Acceptable limits of moisture vapor transmission for RhinoCrete™ HF is 20 lbs./1,000 sq. ft./24 hour using the calcium chloride test per ASTM F-1869 or 99% relative humidity using in-situ Relative Humidity Testing per ASTM F-2170.

CAUTION

As with all chemical products, please review the SDS of each product used for health considerations and suggested Personal Protective Equipment ("PPE").